DYEINGS FAST TO MILLING
OF
ANTHRACENE CHROME AND ANTHRACENE CHROMATE COLOURS ON LOOSE WOOL

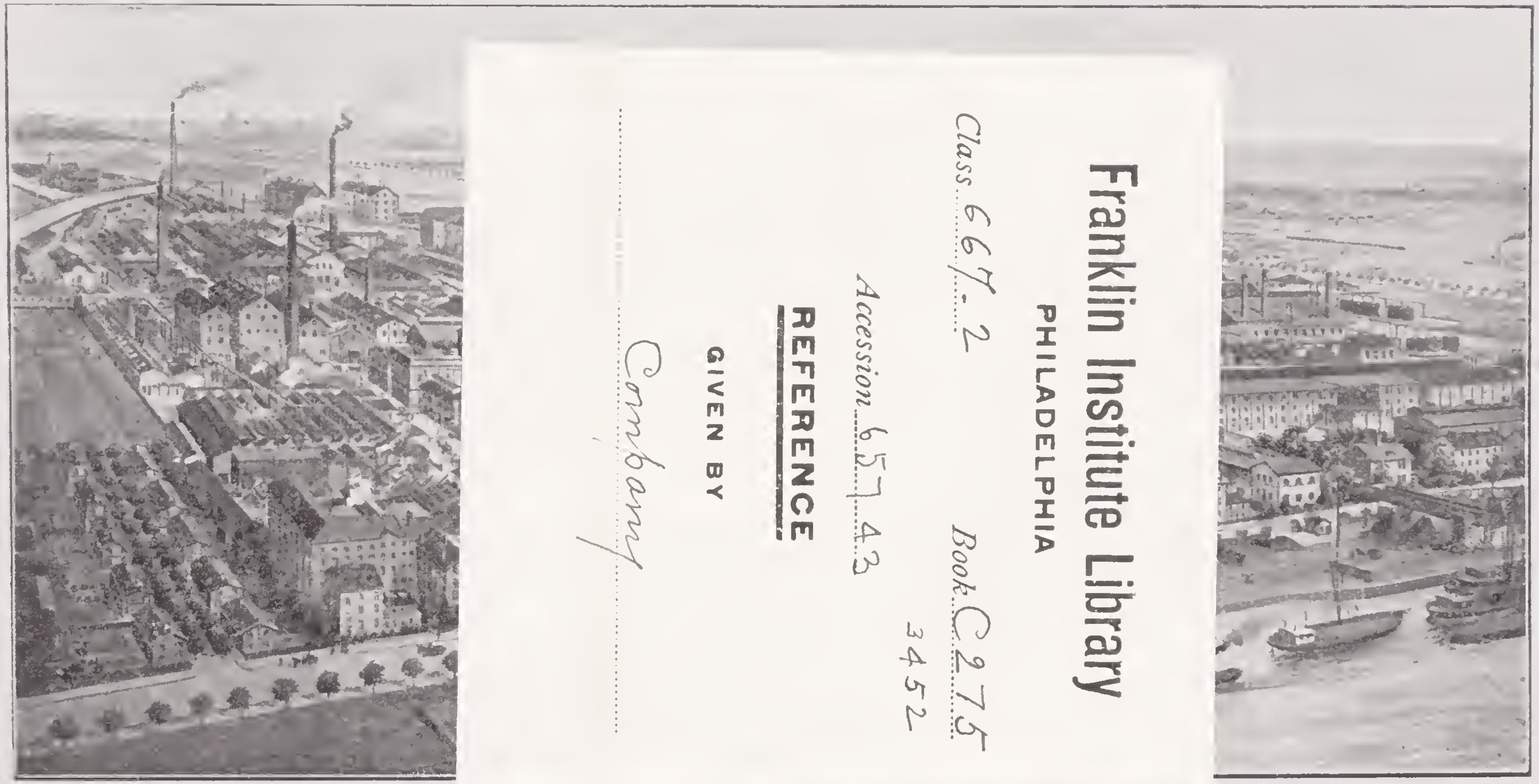
TRADE MARK

CASSELLA COLOR COMPANY
[redacted]
182 and 184 Front Street,
NEW YORK.

Boston: 39 Oliver Street.
Philadelphia: 126 and 128 South Front Street.
Providence: 64 Exchange Place.
Atlanta: 47 North Pryor Street.
Montreal, Canada, 59, William Street.

No. 3452

LEOPOLD CASSELLA & Co., G. m. b. H., FRANKFORT o. M.



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MONTREAL: CANADA: 59 WILLIAM STREET.

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DIRECTIONS FOR DYEING.

ANTHRACENE AND ANTHRACENE CHROMATE COLOURS.

The dyeing may be carried out according to three different methods, viz:

A. **The After-Chroming Process,**
B. **The Chromate Process,**
C. **On Chromed Wool.**

A. After-Chroming Process.

Dyeings Nos 1—64 and 161—220.

Commencing to dye with acetic acid.

Charge the bath with 10% Gauber's salt, 2—3% acetic acid and the requisite quantities of dyestuff, enter the well scoured wool at 45—50° C. (115—120° F.), raise in 20 to 30 minutes to the boil, and exhaust the bath after about ½ hour's boiling by the gradual addition of 1—3% sulphuric acid, according to the depth of shade required; cool off, and chrome for ½ to ¾ hour at the boil with one-half to two-thirds the weight of bichrome as of dyestuff used.

For exhausting the bath, formic acid may likewise be used, or acetic acid in the case of light shades. For Blacks, the dyeing may be commenced at 70° C. (160° F.), the temperature being raised immediately to the boil. Only one-third of the weight of chrome as of dyestuff moreover is necessary as a rule for chroming black dyeings.

When using calcareous water for dyeing, 2% oxalate of ammonia should be added in the case of Anthracene Chrome Black F, FE and FR before adding the dyestuff and acid.

Commencing to dye with sulphuric acid.

There are a few dyestuffs which, used by themselves or in combination with one another, may be dyed straightaway with sulphuric acid. These are Anthracene Yellow BN, BG, RN, GG, Anthracene Acid Brown G, Anthracene Chrome Brown D, DW, SWN, SWR, Anthracene Chrome Red A, Anthracene Chrome Violet B, Anthracene Chrome Blue F, R, B, BB and G, Anthracene Acid Black SR, SBB, SAS, and Azo Chrome Blue T and TB, and may be dyed as follows:

Charge the bath with 1—4% sulphuric acid, according to the depth of shade desired, and the requisite quantities of dyestuff; enter the well scoured wool at about 50° C. (120° F.), and raise to the boil in the course of 20 to 30 minutes, maintaining the boiling for about 1 hour. Then cool off, and chrome at the boil for ¾ hour with one-half to two-thirds the weight of bichrome as of dyestuff used.

As a rule the same quantity of sulphuric acid as of dyestuff is required, not less however than 1% and at the utmost 4%, or for Black 5%; for Anthracene Chrome Brown D, A, SWN and SWR again not more than 3% should used.

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Dyeing in polished copper vessels.

When dyeing with Anthracene Chrome Violet B, Anthracene Chrome Blue R, B, BB, F, FR, Anthracene Acid Blue EB, ER, KBR and KBB, Anthracene Blue Black BE, BG and KB, Anthracene Acid Black SR, SA, SBB, Anthracene Chrome Black PPS extra in polished copper vessels or apparatus, charge the dyebath at 50° C. (120° F.) first of all with ½% ammonium sulphocyanide (reckoned on the weight of the wool) and the 2—3% acetic acid required for commencing to dye, stir well, and allow the liquor to stand for 20 minutes before adding the Glauber's salt and dyestuff.

Dyeings of Brilliant Milling Green B become lighter in severe alkaline milling, the original shade returning however on souring off.

B. Chromate Process.

Dyeings Nos 65—96 and 221—260.

Dyeing with the direct addition of bichrome.

For Light and Medium Shades and for Dyeings of Chromate Blue Black B.

Charge the bath at 60—70° C. (140—160° F.) with the requisite quantities of the well dissolved dyestuff, add the bichrome in solution shortly before entering the goods, and enter at 60—70° C. (140—160° F.). Work for a few minutes at this temperature, raise to the boil, and boil for 1 to 1½ hours. For light and medium shades the bath is sufficiently exhausted, and for deep shades 1—3% acetic acid may be added after ¾ hour's boiling.

Dyestuff and bichrome should be dissolved each separately; the latter should be added to the dyebath only a short time before entering the goods.

Dyeing with subsequent addition of bichrome.

For Deep Shades, and for Wool difficult to dye level, also for Anthracene Chromate Green B and Anthracene Chrome Blue RRW extra.

Charge the bath at about 60—70° C. (140—160° F.) with the requisite quantity of dyestuff well dissolved, for piece-goods adding also 10% Glauber's salt crystals; enter the material at the temperature indicated, raise within a short time to the boil, and after ½ hour's boiling shut off steam or cool the bath off slightly, and gradually add the requisite quantity of bichrome well diluted. Hereafter raise again to the boil, and boil for another hour; the bath may be exhausted by the addition of acetic acid as indicated under (A).

If combinations with large quantities of Chromate Blue Black B are to be dyed according to Method B, a small portion at least of the requisite bichrome should be added to the dyebath on commencing to dye (0.1% bichrome for very light shades, 0.25% for medium shades, and 0.5% for deep shades).

Quantities of Bichrome. As a rule only half the amount of bichrome as of dyestuff is used, but for Chromate Blue Black B, which is delivered in paste form, only one-quarter of the weight of the dyestuff is required.

Chrome Colours are dyed to best advantage in not too soft water (well water); if however only soft water be available, 3—4% magnesium sulphate, reckoned on the weight of the wool, should be added on commencing to dye.

It is of advantage to dissolve Chromate Blue Black B by simply mixing it with boiling hot water without boiling the mixture.

C. On Chromed Wool.

Dyeings Nos 97—128 and 261—280.

Mordant the wool for 1 to 1½ hours at the boil with

1½—4% bichrome and
1 —3% tartar,

according to the depth of shade desired, rinse if possible, and dye in a fresh bath with the addition of

1—3% acetic acid or
5% acetate of ammonia (for light shades).

Enter at about 40—50° C. (105—120° F.), raise in ½ hour to the boil, and boil for 1 to 1½ hours; in order to exhaust the bath, 1—4% acetic acid or ½—1% formic acid may be added after boiling for ½ to ¾ hour.

In order to obtain dark shades with best possible fastness to milling and alkalies it is well to after-chrome in the exhausted dye liquor by gently boiling for 15 to 25 minutes with

½—¾% bichrome.

Anthracene Chrome Blue BW extra and *RRW extra* are dissolved by stirring the dyestuff up with a little ammonia (approximately 6 oz ammonia per 1 lb of dyestuff), hot water being then added. *Anthracene Acid Blue RR* is dissolved with water at a temperature of 50—60° C. (120—140° F.); the solution must not be boiled up.

ACID COLOURS FAST TO MILLING.

(which also may be used as shading dyestuffs for Chrome Colours).

Dyeings Nos 129—139 and 157—160.

Charge the bath with

10% Glauber's salt crystals,
2—4% acetic acid and dyestuff,

enter the well cleaned wool at 50° C. (120° F.), raise in ½ hour to the boil, and exhaust the bath after ½ to ¾ hour's boiling by gradually adding 3—5% acetic acid, or in the case of deep shades 3—5% bisulphate of soda or 1—2% suphuric acid.

For *Alphanol Blue* (Dyeings Nos 154—156), charge the bath with

10% Glauber's salt crystals,
5% ammonia and dyestuff,

enter the well washed wool at about 40° C. (105° F.), raise in ½ hour to the boil, and dye boiling for ¾ to 1 hour, if necessary adding a little acetic acid subseqently.

It has to be noted that the bath should be slightly acid, but not alkaline. When dyeing wool which is slightly alkaline, it is advisable, on commencing to dye, to add ¼—½% bichrome in addition to 1—2% acetic acid.

The other Acid Colours fast to milling mentioned may likewise be dyed according to these directions.

With regard to dyeings of Brilliant Milling Green B becoming lighter in severe alkaline milling, see the remark under (A).

DIAMINE COLOURS.

Dyeings Nos 140—153.

Dye with the addition of 10—20% Glauber's salt crystals; enter at 40—60° C. (105—120° F.), raise to the boil, and boil for ¾ to 1 hour. The bath may if necessary be exhausted by the gradual addition of 1—4% acetic acid.

In the case of Diamine Fast Red F and Diamine Brown M and B the chroming is carried out for ½ hour at the simmer in the exhausted dyebath.

Without guarantee.

SELF SHADES DYED BY THE AFTER-CHROMING PROCESS

1
4 % Anthracene Yellow GG
3 % chromium fluoride

2
4 % Anthracene Yellow GG
2 % bichrome

3
3 % Anthracene Yellow BG
2 % bichrome

4
3 % Anthracene Yellow BN
2 % bichrome

5
3 % Anthracene Yellow C powder
2 % bichrome

6
3 % Anthracene Yellow FN
2 % bichrome

7
3 % Anthracene Yellow RN
2 % bichrome

8
3 % Anthracene Yellow R
2 % bichrome

9
4 % Anthracene Acid Brown G
2.5 % bichrome

10
4 % Anthracene Acid Brown B
2.5 % bichrome

11
4 % Anthracene Acid Brown SW
2.5 % bichrome

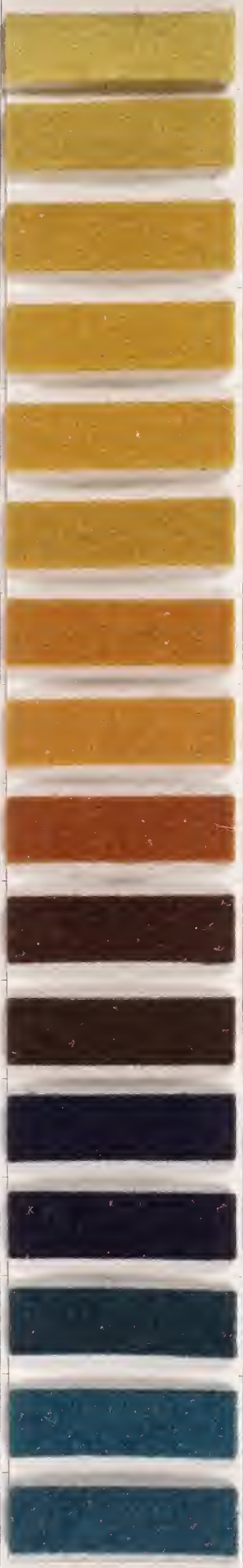
12
4 % Azo Chrome Blue T
3 % bichrome
1 % sulphuric acid

13
4 % Azo Chrome Blue TB
3 % bichrome
1 % sulphuric acid

14
3 % Anthracene Chromate Green KFF extra pat.
1.5 % bichrome

15
3 % Alizarine Brilliant Green G pat.
1.5 % bichrome

16
3 % Alizarine Brilliant Green SE pat.
1.5 % bichrome



17
3 % Anthracene Orange G
2 % bichrome

18
4 % Anthracene Chrome Red G
2 % bichrome

19
4 % Anthracene Chrome Red A
2.5 % bichrome

20
3 % Anthracene Chrome Violet B
2 % bichrome

21
4 % Anthracene Acid Brown N
2.5 % bichrome

22
4 % Anthracene Chrome Brown SWN pat.
2.5 % bichrome

23
4 % Anthracene Chrome Brown A
2.5 % bichrome

24
4 % Anthracene Chrome Brown D
2.5 % bichrome

25
4 % Anthracene Chrome Brown SWR pat.
2.5 % bichrome

26
4 % Anthracene Chrome Brown DWN
2.5 % bichrome

27
4 % Anthracene Chrome Brown KDR
2.5 % bichrome

28
2 % Anthracene Chromate Brown EB
1.25 % bichrome

29
3 % Anthracene Chrome Blue R pat.
2 % bichrome

30
3 % Anthracene Chrome Blue B pat.
2 % bichrome

31
3 % Anthracene Chrome Blue BB pat.
1.5 % bichrome

32
3 % Anthracene Chrome Blue G pat.
1.5 % bichrome

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SELF SHADES DYED BY THE AFTER-CHROMING PROCESS

33	3 % Anthracene Chrome Blue 2 % bichrome	F pat.	■
34	3 % Anthracene Chrome Blue 2 % bichrome	FR	■
35	4 % Anthracene Acid Blue 2 % bichrome	EB pat.	■
36	4 % Anthracene Acid Blue 2 % bichrome	ER pat.	■
37	4 % Anthracene Acid Blue 2 % bichrome	KBR pat.	■
38	4 % Anthracene Acid Blue 2 % bichrome	KBB pat.	■
39	3 % Anthracene Blue Black 1.5 % bichrome	BE pat.	■
40	3 % Anthracene Blue Black 1.5 % bichrome	BG pat.	■
41	3 % Anthracene Blue Black 1.5 % bichrome	KG pat.	■
42	3 % Anthracene Blue Black 1.5 % bichrome	C pat.	■
43	6 % Anthracene Acid Black 3 % bichrome	SR	■
44	8 % Anthracene Acid Black 3 % bichrome	SBB	■
45	8 % Anthracene Acid Black 3 % bichrome	SAS	■
46	6 % Anthracene Chrome Black 2 % bichrome	5B pat.	■
47	6 % Anthracene Chrome Black 2 % bichrome	F pat.	■
48	6 % Anthracene Chrome Black 2 % bichrome	FE pat.	■
49	8 % Anthracene Chrome Black 2.75 % bichrome	PPS extra pat.	■
50	8 % Anthracene Chrome Black 2.75 % bichrome	PPN extra pat.	■
51	8 % Anthracene Chrome Black 2.75 % bichrome	PPC extra pat.	■
52	7 % Anthracene Chrome Black 2.5 % bichrome	PPT extra pat.	■
53	8 % Anthracene Chrome Black 2.75 % bichrome	PBB pat.	■
54	8 % Anthracene Chrome Black 2.75 % Chromkali	KLB pat.	■
55	8 % Anthracene Chrome Black 2.75 % bichrome	P extra pat.	■
56	8 % Anthracene Chrome Black 2.75 % bichrome	PF extra pat.	■
57	8 % Anthracene Chrome Black 2.75 % bichrome	PFB extra pat.	■
58	8 % Anthracene Chrome Black 2.75 % bichrome	PFR extra pat.	■
59	8 % Anthracene Chrome Black 2.75 % bichrome	KV pat.	■
60	7 % Anthracene Chrome Black 2.5 % bichrome	KLT pat.	■
61	6 % Anthracene Chrome Black 2 % bichrome	KG pat.	■
62	5 % Anthracene Acid Black 1.5 % bichrome	DSN	■
63	5 % Anthracene Acid Black 1.5 % bichrome	DSF	■
64	5.5 % Anthracene Acid Black 1.75 % bichrome	DSFB pat.	■

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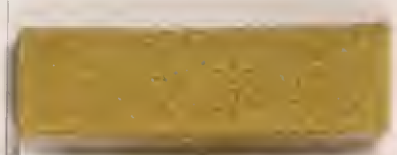
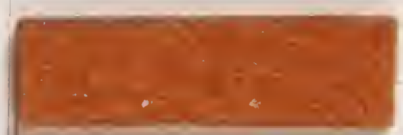
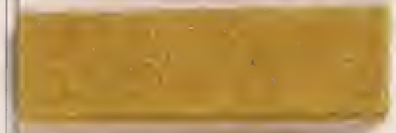
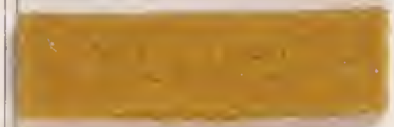
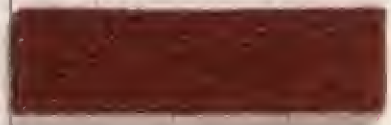
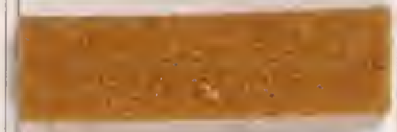
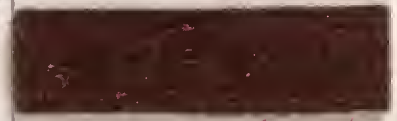
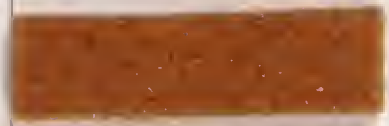
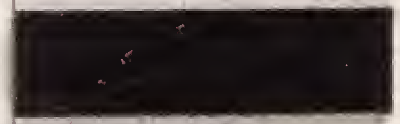
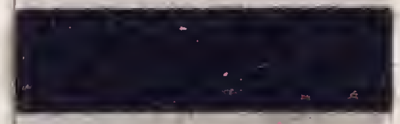
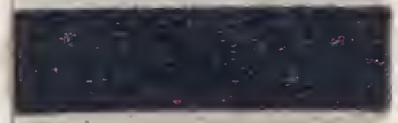
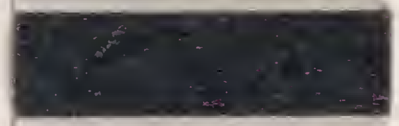
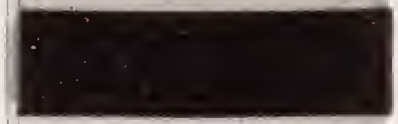
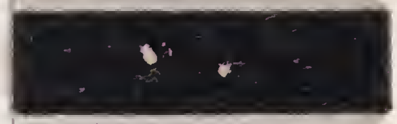
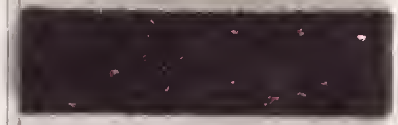
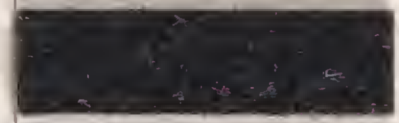
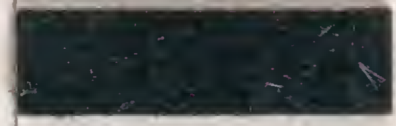
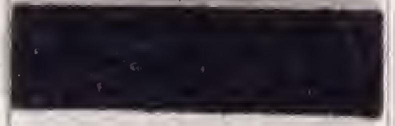
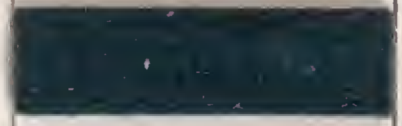
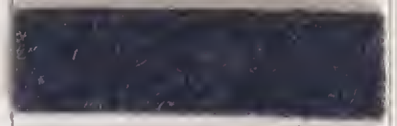
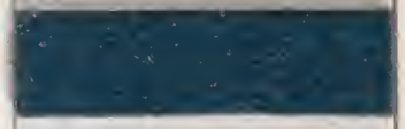
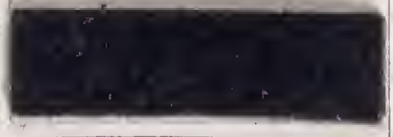
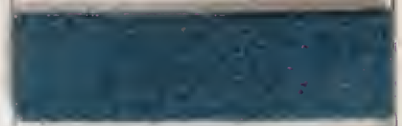
SELF SHADES DYED BY THE CHROMATE PROCESS

65 4 % Anthracene Yellow GG 2 % bichrome		81 3 % Anthracene Orange G 1.5 % bichrome	
66 3 % Anthracene Yellow BG 1.5 % bichrome		82 3 % Diamine Fast Red F 1.5 % bichrome	
67 3 % Anthracene Yellow BN 1.5 % bichrome		83 4 % Anthracene Chrome Red G 2 % bichrome	
68 3 % Anthracene Yellow C powder 1.5 % bichrome		84 4 % Anthracene Acid Brown N 2 % bichrome	
69 3 % Anthracene Yellow RN 1.5 % bichrome		85 4 % Anthracene Acid Brown B 2 % bichrome	
70 4 % Anthracene Chromate Brown 3G 2 % bichrome		86 4 % Anthracene Chrome Brown DWN 2 % bichrome	
71 4 % Anthracene Chromate Brown WG 2 % bichrome		87 3 % Anthracene Chrome Blue RRW extra pat. 1.5 % bichrome	
72 4 % Anthracene Chromate Brown WS 2 % bichrome		88 3 % Anthracene Blue Black C pat. 1.5 % bichrome	
73 1 % Anthracene Chromate Brown EB 0.5 % bichrome		89 2 % Anthracene Chromate Grey KB 1 % bichrome	
74 2 % Anthracene Chromate Brown EB 1 % bichrome		90 3 % Anthracene Chromate Grey KB 1.5 % bichrome	
75 1 % Anthracene Chromate Brown ER 0.5 % bichrome		91 2 % Anthracene Chromate Grey G 1 % bichrome	
76 2 % Anthracene Chromate Brown ER 1 % bichrome		92 3 % Anthracene Chromate Grey G 1.5 % bichrome	
77 3 % Anthracene Chromate Violet XB 1.5 % bichrome		93 3 % Anthracene Chromate Green B pat. 1.5 % bichrome	
78 3 % Anthracene Chromate Blue XR pat. 1.5 % bichrome		94 3 % Anthracene Chromate Green KFF extra pat. 1.5 % bichrome	
79 4 % Chromate Blue Black B pat. 1 % bichrome		95 3 % Alizarine Brilliant Green G pat. 1.5 % bichrome	
80 8 % Chromate Blue Black B pat. 2 % bichrome		96 3 % Alizarine Brilliant Green SE pat. 1.5 % bichrome	

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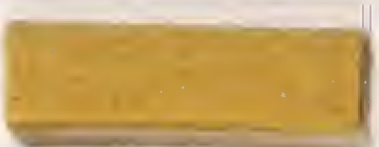
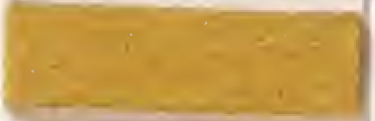
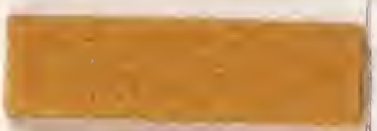
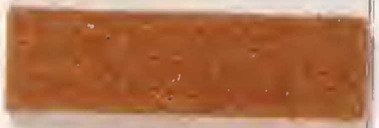
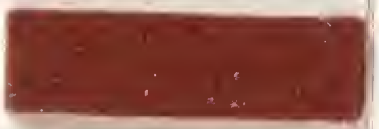
SELF SHADES DYED ON CHROMED WOOL

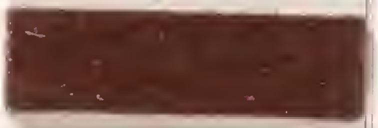
97
3 % Anthracene Yellow BN


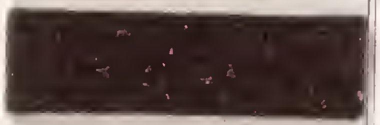
98
3 % Anthracene Yellow C powder


99
3 % Anthracene Yellow RN


100
3 % Anthracene Acid Brown G


101
4 % Anthracene Acid Brown N


102
4 % Anthracene Acid Brown B


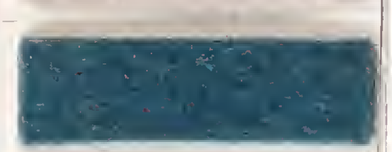
103
4 % Anthracene Chromate Brown WG


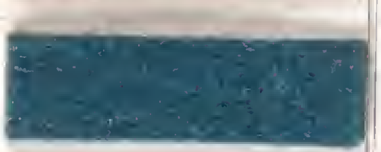
104
4 % Anthracene Chromate Brown WS

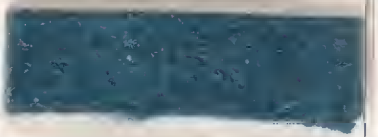
105
2 % Anthracene Chromate Brown EB

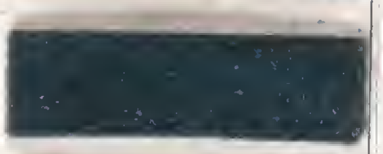
106
4 % Anthracene Chrome Brown DWN

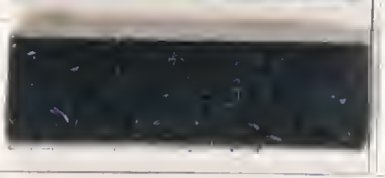
107
4 % Anthracene Chrome Brown KDR

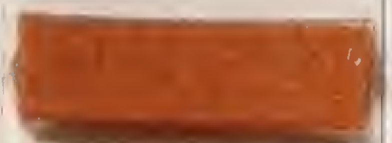
108
3 % Anthracene Acid Blue GG pat.


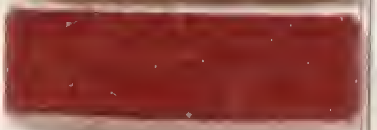
109
3 % Alizarine Brilliant Green G pat.


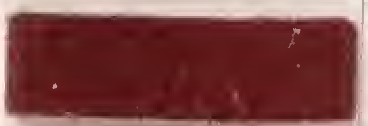
110
3 % Alizarine Brilliant Green SE pat.


111
3 % Anthracene Chromate Green KFF extra pat.


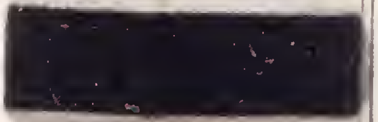
112
3 % Anthracene Chromate Green B pat.


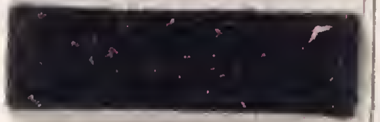
113
3 % Anthracene Orange G


114
4 % Anthracene Chrome Red G


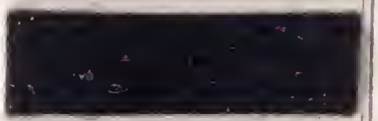
115
3 % Anthracene Chrome Red A


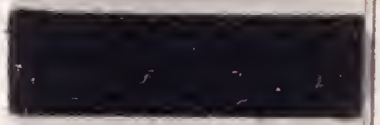
116
3 % Anthracene Chrome Violet B

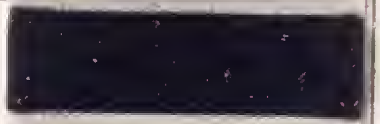
117
3 % Anthracene Chrome Blue R pat.


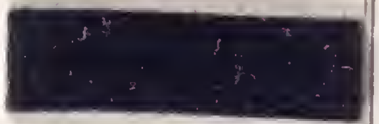
118
3 % Anthracene Chrome Blue BB pat.


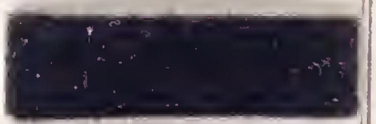
119
3 % Anthracene Chrome Blue G pat.

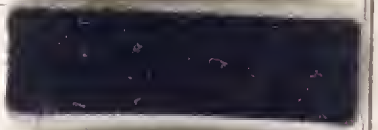
120
4 % Anthracene Chrome Blue BW extra pat.


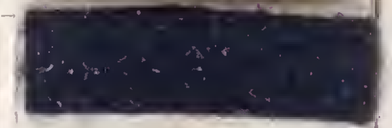
121
3 % Anthracene Chrome Blue RRW extra pat.


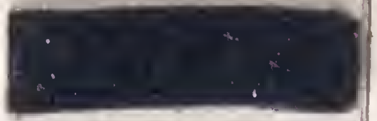
122
4 % Anthracene Acid Blue ER pat.


123
4 % Anthracene Acid Blue EB pat.


124
3 % Anthracene Blue Black BE pat.


125
3 % Anthracene Blue Black BG pat.


126
3 % Anthracene Blue Black KG pat.


127
3 % Anthracene Blue Black C pat.


128
2 % Anthracene Acid Blue RR pat.

ACID COLOURS AND DIAMINE COLOURS FAST TO MILLING.

129	3 % Milling Yellow O pat.	🟨
130	3 % Milling Yellow G pat.	🟨
131	3 % Milling Red G	🟥
132	3 % Milling Red FR	🟥
133	3 % Milling Red BG	🟥
134	3 % Wool Red B	🟥
135	2 % Formyl Violett S4B	🟪
136	2 % Brilliant Milling Blue B pat.	🟦
137	2 % Formyl Blue B	🟦
138	3 % Brilliant Milling Green B	🟦
139	3 % Tetra Cyanole A	🟦
140	2 % Diamine Yellow CP	🟨
141	4 % Diamine Fast Yellow FF pat.	🟨
142	3 % Diamine Orange F	🟧
143	3 % Diaminogene extra	⬛
144	2 % Diamine Black DN	⬛
145	4 % Diamine Purpurine B	🟥
146	4 % Diamine Purpurine 3B	🟥
147	3 % Diamine Scarlet B	🟥
148	3 % Diamine Scarlet 3B	🟥
149	3 % Diamine Bordeaux S	🟥
150	3 % Diamine Fast Red F 1.5 % bichrome	🟥
151	3 % Diamine Brown M 1.5 % bichrome	🟫
152	3 % Diamine Brown B 1.5 % bichrome	🟫
153	3 % Diamine Dark Green N	⬛
154	2.5 % Alphanol Blue BR extra	⬛
155	4 % Alphanol Blue 5RN	🟦
156	4 % Alphanol Blue GN	🟦
157	7 % Alphanol Black 3BN	⬛
158	7 % Alphanol Black BG	⬛
159	6 % Alphanol Black KWAN conc.	⬛
160	6 % Alphanol Black R	⬛

CASSELLA COLOR COMPANY, NEW YORK.

AFTER-CHROMED COLOURS.

161

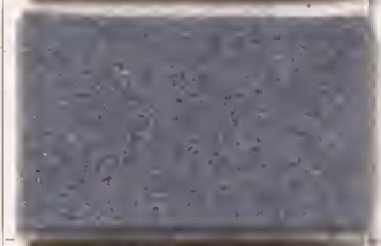
0.15 % Anthracene Blue Black C pat.
0.1 % bichrome

162

0.18 % Anthracene Blue Black KG pat.
0.05 % Anthracene Chrome Brown SWN pat.
0.15 % bichrome

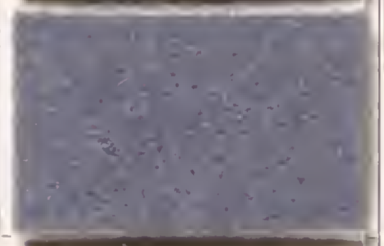
163

0.25 % Anthracene Chrome Brown SWN pat.
0.02 % Anthracene Chrome Red A
0.6 % Anthracene Blue Black KG pat.
0.55 % bichrome



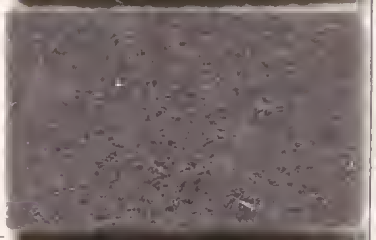
164

0.08 % Anthracene Chrome Brown SWN pat.
0.6 % Anthracene Blue Black KG pat.
0.4 % bichrome



165

0.75 % Anthracene Chrome Brown SWN pat.
0.3 % Anthracene Blue Black KG pat.
0.6 % bichrome



166

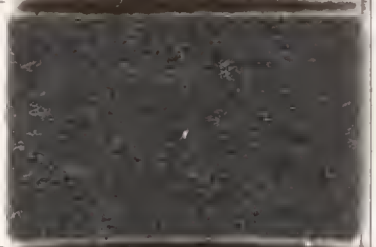
0.16 % Anthracene Yellow BN
0.25 % Anthracene Chrome Red A
1.1 % Anthracene Blue Black KG pat.
0.9 % bichromate

167

0.2 % Anthracene Yellow BN
0.8 % Anthracene Chrome Brown SWN pat.
0.8 % Anthracene Blue Black KG pat.
1.2 % bichrome

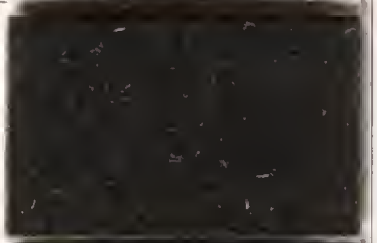
168

0.2 % Anthracene Yellow BN
0.7 % Anthracene Chrome Brown SWN pat.
1.2 % Anthracene Blue Black KG pat.
1.3 % bichrome



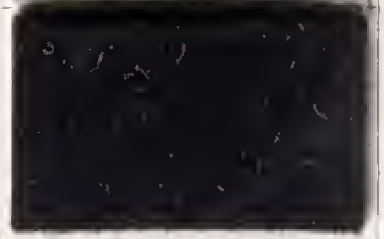
169

1 % Anthracene Chrome Brown SWN pat.
0.9 % Anthracene Yellow BN
3 % Anthracene Blue Black KG pat.
3 % bichrome



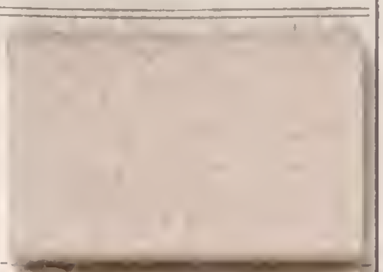
170

7 % Anthracene Chrome Black PBB pat.
1 % Anthracene Chromate Green KFF extra pat.
2.75 % bichrome



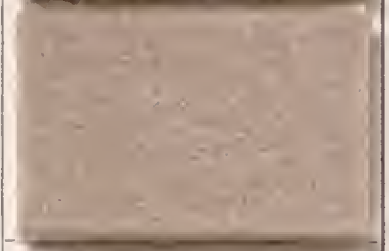
171

0.01 % Anthracene Yellow BN
0.1 % Anthracene Chrome Brown SWN pat.
0.01 % Anthracene Chrome Red A
0.1 % bichrome



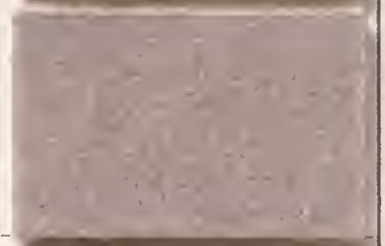
172

0.02 % Anthracene Yellow BN
0.3 % Anthracene Chrome Brown SWN pat.
0.015 % Anthracene Chrome Red A
0.25 % bichromate



173

0.05 % Anthracene Blue Black KG pat.
0.2 % Anthracene Chrome Brown SWN pat.
0.2 % bichrome

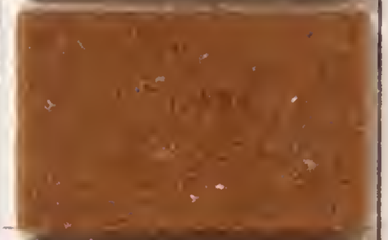


174

0.8 % Anthracene Chrome Brown SWN pat.
0.5 % bichrome

175

1 % Anthracene Chrome Brown SWN pat.
2 % Anthracene Yellow BN
0.5 % Anthracene Chrome Red A
2.25 % bichrome

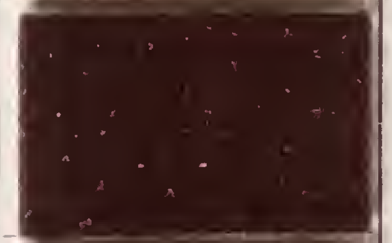


176

2.5 % Anthracene Chrome Brown SWN pat.
1 % Anthracene Chrome Red A
2.5 % Anthracene Yellow BN
3 % bichrome

177

2.8 % Anthracene Chrome Brown SWR pat.
0.8 % Anthracene Chrome Red A
1.4 % Anthracene Yellow BN
3 % bichrome

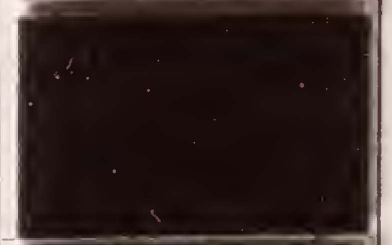


178

3.5 % Anthracene Chrome Brown SWR pat.
2 % Anthracene Yellow BN
3 % bichrome

179

4 % Anthracene Chrome Brown DWN
2 % Anthracene Chrome Red A
2 % Anthracene Yellow BN
3 % bichrome



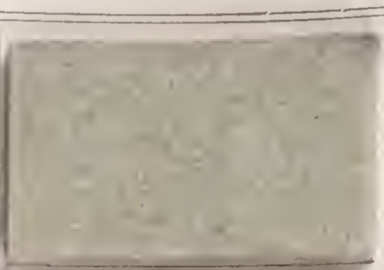
180

3 % Anthracene Chrome Brown DWN
1.75 % Anthracene Chrome Red A
2.5 % Anthracene Blue Black BE pat.
3 % brichrome

AFTER-CHROMED COLOURS.

181

0.08 0/0 Anthracene Yellow BN
0.1 0/0 Anthracene Blue Black
0.1 0/0 bichrome C pat.



182

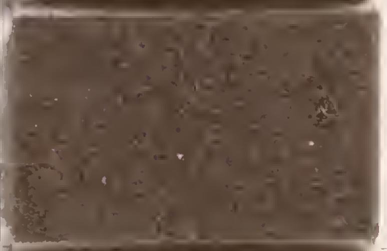
0.4 0/0 Anthracene Chrome
Brown SWN pat.
0.2 0/0 Anthracene Yellow BN
0.05 0/0 Anthracene Blue Black
KG pat.
0.4 0/0 bichrome

183

0.25 0/0 Anthracene Yellow BN
0.8 0/0 Anthracene Chrome
Brown SWN pat.
0.1 0/0 Anthracene Blue Black
0.8 0/0 bichrome KG pat.

184

0.2 0/0 Anthracene Blue Black
KG pat.
0.8 0/0 Anthracene Chrome
Brown SWN pat.
0.2 0/0 Anthracene Yellow BN
0.6 0/0 bichrome



185

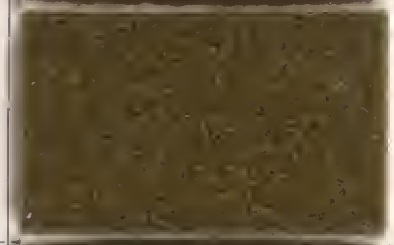
0.5 0/0 Anthracene Yellow BN
1.5 0/0 Anthracene Chrome
Brown SWN pat.
0.1 0/0 Anthracene Blue Black
1.3 0/0 bichrome KG pat.

186

3 0/0 Anthracene Yellow BN
0.5 0/0 Anthracene Chrome
Brown SWN pat.
1.5 0/0 Anthracene Blue Black
2.5 0/0 bichrome BG pat.

187

1.5 0/0 Anthracene Yellow BN
0.8 0/0 Anthracene Blue Black
C pat.
0.2 0/0 Anthracene Chrome
Brown SWR pat.
1.5 0/0 bichrome



188

2 0/0 Anthracene Yellow BN
0.5 0/0 Anthracene Chrome
Brown SWR pat.
2.2 0/0 Anthracene Blue Black
2.75 0/0 bichrome KG pat.

189

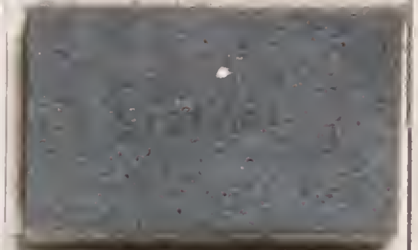
2 0/0 Anthracene Chrome
Brown SWN pat.
1.75 0/0 Anthracene Yellow BN
3 0/0 Anthracene Blue Black
3 0/0 bichrome KG pat.

190

0.8 0/0 Anthracene Yellow BN
4 0/0 Anthracene Chrome
Brown SWN pat.
0.5 0/0 Anthracene Blue Black
2.75 0/0 bichrome KG pat.

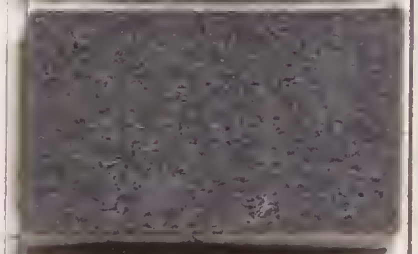
191

0.1 0/0 Anthracene Yellow BN
0.5 0/0 Anthracene Blue Black
0.3 0/0 bichrome KG pat.



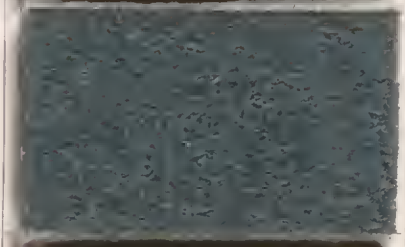
192

0.05 0/0 Anthracene Yellow BN
0.6 0/0 Anthracene Blue Black
KG pat.
0.5 0/0 Anthracene Chrome
Brown SWN pat.
0.8 0/0 bichrome



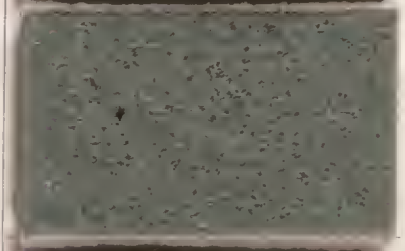
193

0.2 0/0 Anthracene Yellow BN
0.8 0/0 Anthracene Blue Black
KG pat.
0.5 0/0 Brilliant Milling Green B
0.7 0/0 bichrome



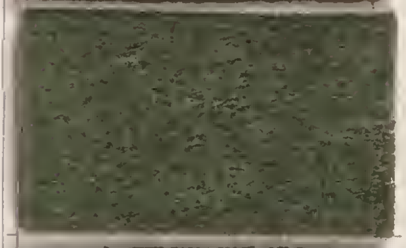
194

0.25 0/0 Anthracene Yellow BN
0 5 0/0 Anthracene Blue Black
0.4 0/0 bichrome BG pat.



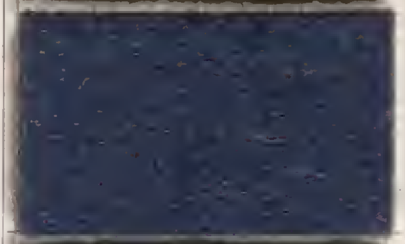
195

1 0/0 Anthracene Blue Black
C pat.
0.5 0/0 Anthracene Yellow BN
0.8 0/0 bichrome



196

0.1 0/0 Anthracene Chrome
Brown SWN pat.
1.5 0/0 Anthracene Blue Black
0.8 0/0 bichrome KG pat.



197

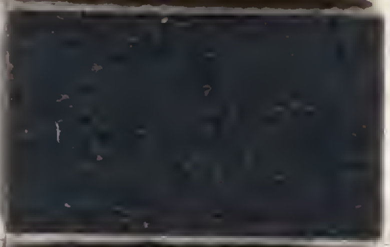
0.5 0/0 Anthracene Acid Blue
EB pat.
1 0/0 Anthracene Acid Blue
0.8 0/0 bichrome ER pat.

198

3.25 0/0 Anthracene Acid Blue
1.75 0/0 bichrome EB pat.

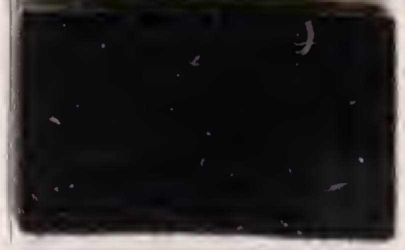
199

0.25 0/0 Anthracene Yellow BN
2 0/0 Anthracene Blue Black
1.1 0/0 bichrome BG pat.



200

4 0/0 Anthracene Chrome Black
PPC extra pat.
4 0/0 Anthracene Chrome Black
2.75 0/0 bichrome. PBB pat.



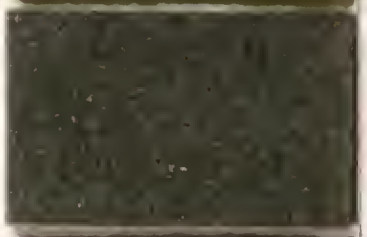
AFTER-CHROMED COLOURS.

201

2 % Anthracene Yellow BG
0.5 % Brilliant Milling Green B
1.75 % bichrome

202

1 % Anthracene Yellow BN
2 % Anthracene Blue Black
KG pat.
1.5 % bichrome

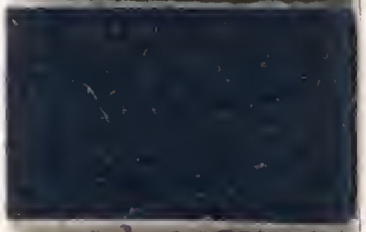


203

0.35 % Anthracene Yellow BN
0.25 % Anthracene Chrome
Brown SWN pat.
1.5 % Anthracene Blue Black
KG pat.
1.2 % bichrome

204

2 % Anthracene Blue Black
BE pat.
0.25 % Anthracene Yellow BN
1.5 % Tetra Cyanole A
2.25 % bichrome

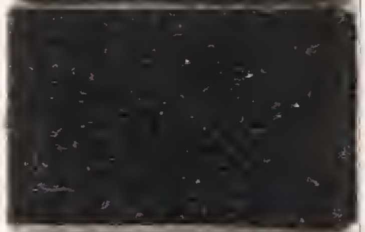


205

0.4 % Anthracene Yellow BN
3 % Anthracene Blue Black
BG pat.
1.7 % bichrome

206

1 % Anthracene Chrome
Brown SWN pat.
0.5 % Anthracene Yellow BG
3 % Anthracene Blue Black
KG pat.
2,75 % bichrome



207

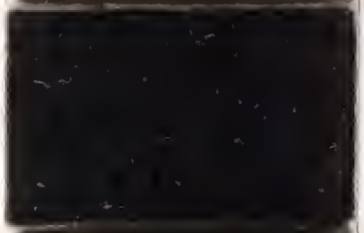
3.5 % Anthracene Blue Black
BE pat.
0.35 % Anthracene Yellow BN
0.75 % Tetra Cyanole A
2.5 % bichrome

208

1.25 % Anthracene Chrome
Brown SWN pat.
3 % Anthracene Blue Black
KG pat.
2.75 % bichrome

209

6 % Anthracene Acid Brown
DSF
2 % bichrome

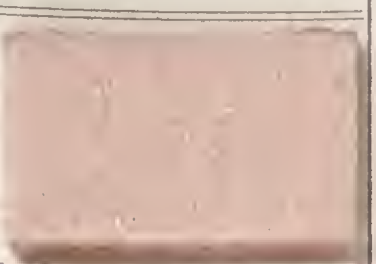


210

8 % Anthracene Chrome Black
PPC extra pat.
0.2 % Anthracene Acid Brown G
2.75 % bichrome

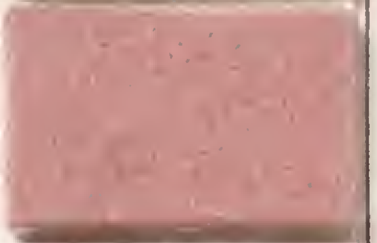
211

0.1 % Anthracene Chrome Red A
0.1 % bichrome



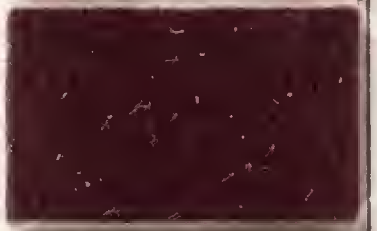
212

0.25 % Anthracene Chrome Red A
0.15 % bichrome



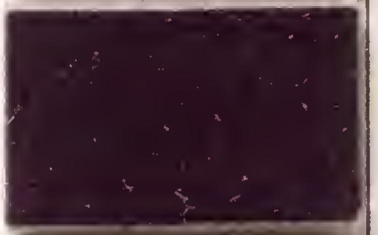
213

3 % Anthracene Chrome Red A
1 % Lanazurine 1225 J
2.5 % bichrome



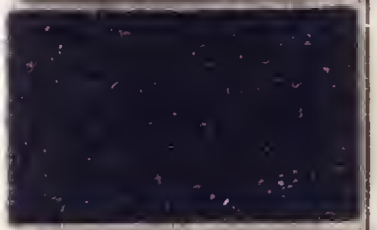
214

2 % Anthracene Chrome
Violet B
1 % Lanazurine 1225 J
2 % bichrome



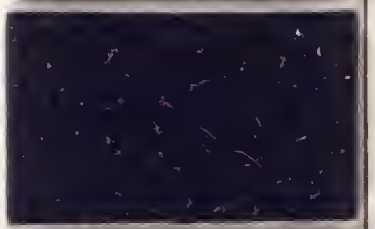
215

4 % Anthracene Acid Blue ER
pat.
0.6 % Brilliant Milling Blue B pat.
2.25 % bichrome



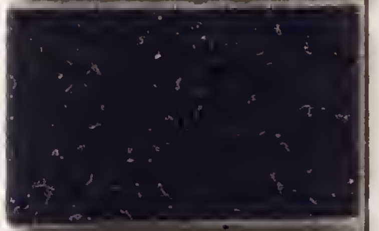
216

5 % Anthracene Acid Blue
KBR pat.
0.6 % Formyl Violet S4B
2.5 % bichrome



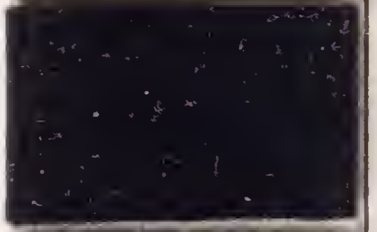
217

4 % Anthracene Acid Blue
EB pat.
2 % Anthracene Chrome Blue
F pat.
3 % bichrome



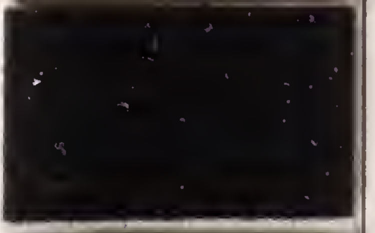
218

4 % Anthracene Acid Blue
ER pat.
2 % Anthracene Chrome Blue
R pat.
3 % bichrome



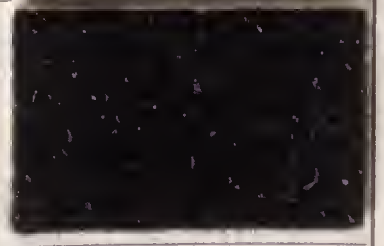
219

8 % Anthracene Chrome Black
PPT extra pat.
2.75 % bichrome



220

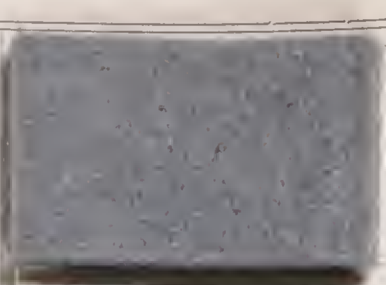
7.5 % Anthracene Chrome Black
PPT extra pat.
0.25 % Anthracene Acid Brown G
2.5 % bichrome



DYED BY THE CHROMATE PROCESS.

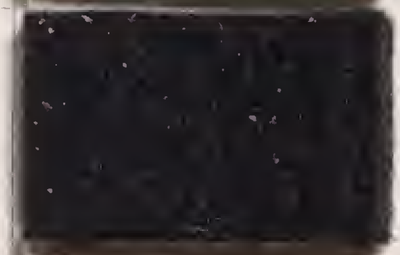
221

0.3 % Anthracene Chromate Grey KB
0.15 % bichrome



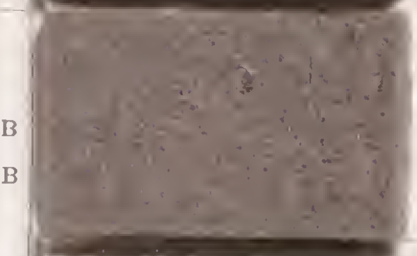
222

0.25 % Anthracene Chromate Brown EB
1.5 % Anthracene Chromate Grey KB
0.9 % bichrome



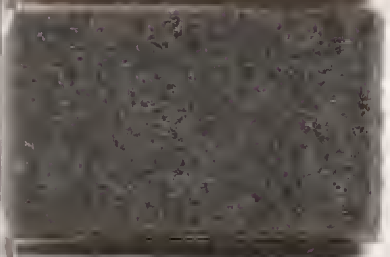
223

0.05 % Anthracene Yellow BN
0.2 % Anthracene Chromate Brown EB
0.05 % Anthracene Chromate Grey KB
0.15 % bichrome



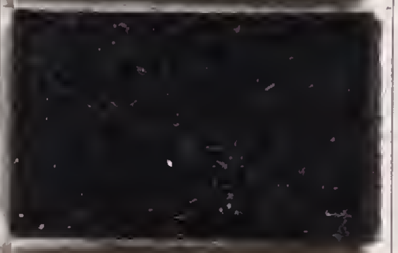
224

1 % Chromate Blue Black B pat.
0.15 % Anthracene Yellow BN
0.2 % Anthracene Chromate Brown EB
0.4 % bichrome



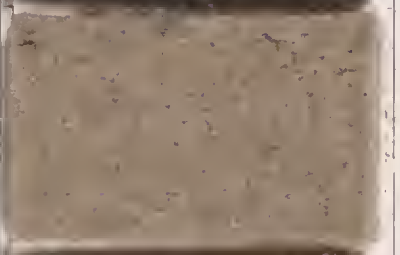
225

5 % Chromate Blue Black B pat.
0.75 % Anthracene Chromate Brown EB
1.5 % bichrome



226

0.15 % Anthracene Chromate Brown EB
0.15 % Anthracene Yellow BN
0.15 % bichrome

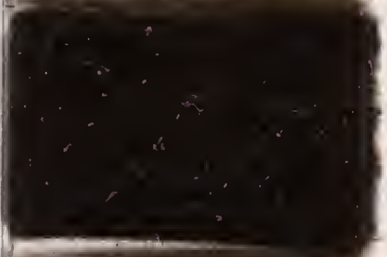


227

0.6 % Anthracene Chromate Brown EB
1.2 % Anthracene Yellow BN
0.9 % bichrome

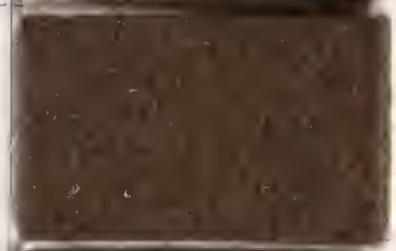
228

1 % Chromate Blue Black B pat.
2 % Anthracene Yellow BN
1 % Anthracene Chromate Brown EB
1.5 % bichrome



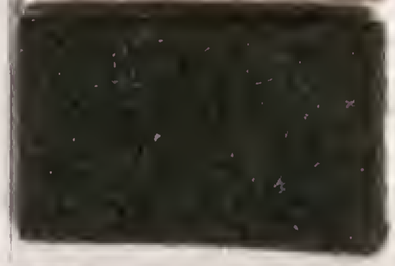
229

0.5 % Anthracene Chromate Brown EB
0.5 % Anthracene Yellow BN
0.6 % bichrome



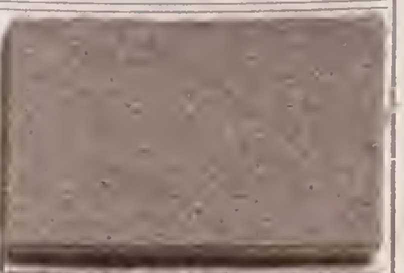
230

4 % Chromate Blue Black B pat.
1.5 % Anthracene Yellow BN
1.75 % bichrome



231

0.2 % Anthracene Chromate Brown EB
0.05 % Anthracene Yellow BN
0.15 % bichrome

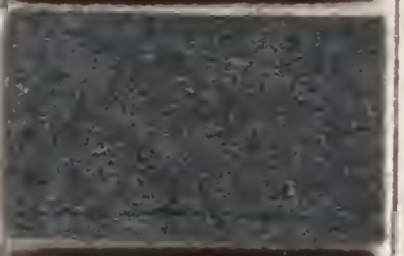


232

0.2 % Anthracene Yellow BN
0.8 % Anthracene Chromate Brown EB
0.2 % Anthracene Chrome Red G
0.6 % bichrome

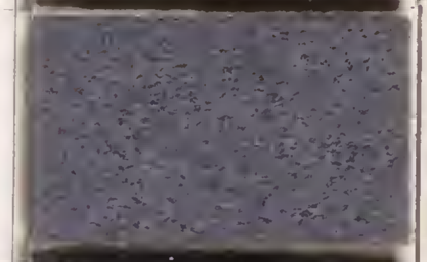
233

0.1 % Anthracene Chromate Brown EB
0.05 % Anthracene Yellow BN
0.8 % Anthracene Chromate Grey KB
0.5 % bichrome



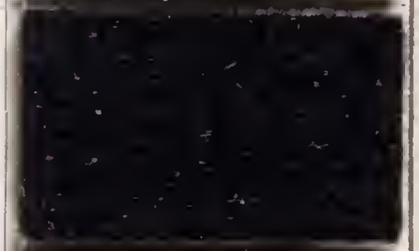
234

1 % Chromate Blue Black B pat.
0.12 % Anthracene Chromate Brown ER
0.3 % bichrome



235

0.75 % Anthracene Chromate Green B pat.
2.5 % Anthracene Chromate Blue XR pat.
1.5 % bichrome



236

1.5 % Anthracene Yellow BN
1 % Anthracene Chromate Brown ER
1.25 % bichrome

237

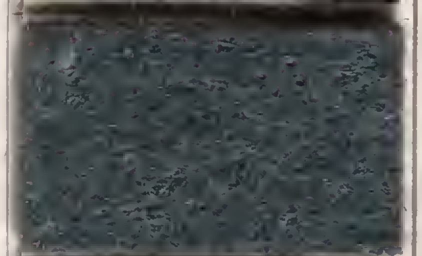
2 % Anthracene Yellow BN
1.5 % Anthracene Chromate Brown ER
1.75 % bichrome

238

2.75 % Anthracene Chromate Brown ER
1 % Anthracene Yellow BN
1.8 % bichrome

239

0.1 % Anthracene Chromate Brown EB
0.1 % Anthracene Yellow BN
0.8 % Anthracene Chromate Green KFF extra pat.
0.5 % bichrome



240

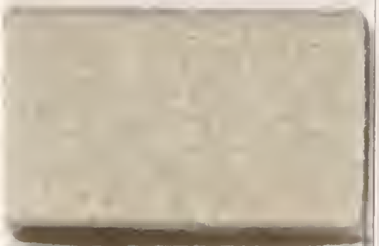
4 % Chromate Blue Black B pat.
0.5 % Anthracene Yellow BN
1.25 % bichrome

CASSELLA COLOR COMPANY, NEW YORK.

DYED BY THE CHROMATE PROCESS.

241

0.08 % Anthracene Yellow BN
0.2 % Chromate Blue Black B pat.
0.15 % bichrome



242

0.2 % Anthracene Chromate Brown EB
0.3 % Anthracene Yellow BN
1 % Anthracene Chromate Green KFF extra pat.
0.75 % bichrome

243

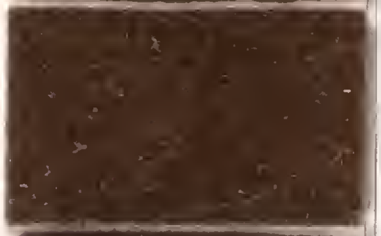
2.5 % Anthracene Yellow BN
1 % Anthracene Chromate Green B pat.
0.8 % Anthracene Chromate Brown EB
2 % bichrome

244

0.4 % Anthracene Chromate Brown EB
0.3 % Anthracene Yellow BN
0.4 % bichrome

245

0.8 % Anthracene Chromate Brown EB
1.8 % Anthracene Yellow BN
0.2 % Anthracene Chrome Red G
1.4 % bichrome



246

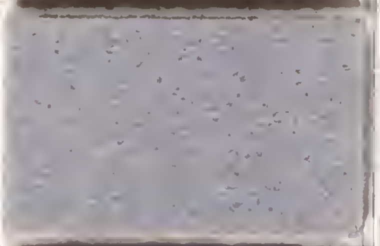
0.5 % Anthracene Yellow BN
1.5 % Anthracene Chromate Brown EB
1 % bichrome

247

2 % Anthracene Yellow BN
0.8 % Anthracene Chromate Green B pat.
0.5 % Anthracene Chromate Brown EB
1.5 % bichrome

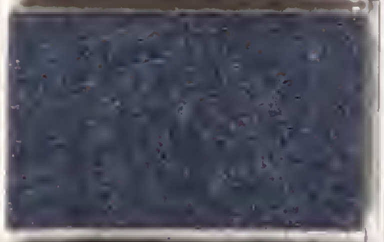
248

0.5 % Chromate Blue Black B pat.
0.15 % bichrome



249

3 % Chromate Blue Black B pat
0.75 % bichrome

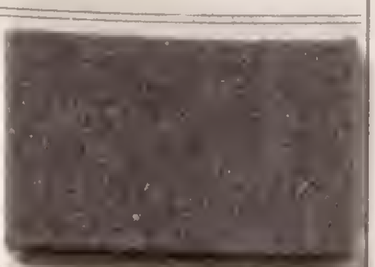


250

1 % Anthracene Chromate GreenB pat.
2 % Anthracene Chromate Blue XR pat.
1.5 % bichrome

251

0.35 % Anthracene Chromate Brown EB
0.2 % Anthracene Chromate Grey KB
0.3 % bichrome



252

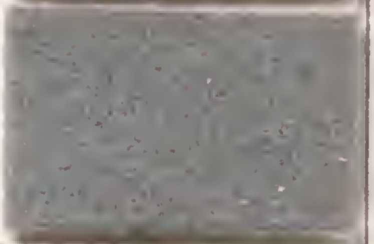
0.5 % Anthracene Chromate Brown EB
0.5 % Anthracene Yellow BN
0.3 % Anthracene Chromate Grey KB
0.7 % bichrome

253

1 % Anthracene Yellow BN
1.2 % Anthracene Chromate Brown EB
0.5 % Anthracene Chrome Red G
1.25 % bichrome

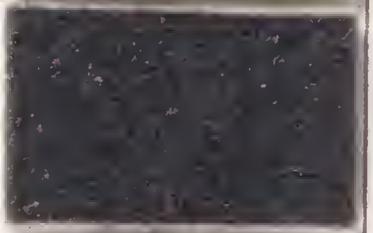
254

0.8 % Chromate Blue Black B pat.
0.08 % Anthracene Yellow BN
0.25 % bichrome



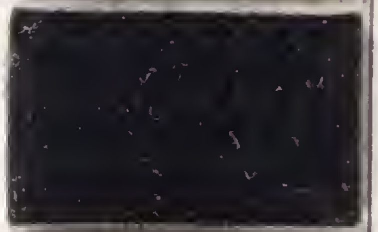
255

2 % Chromate Blue Black B pat.
0.25 % Anthracene Chromate Brown EB
0.6 % bichrome



256

6 % Chromate Blue Black B pat.
1 % Anthracene Chromate Green B pat.
1.8 % bichrome

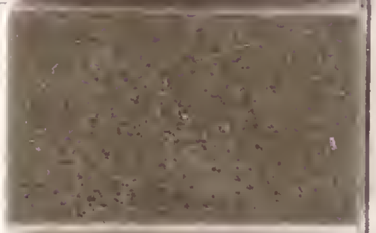


257

1 % Anthracene Chromate Violet XB
3 % Anthracene Chrome Red G
2 % bichrome

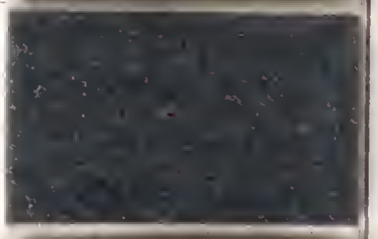
258

0.3 % Anthracene Chromate Brown EB
0.2 % Anthracene Yellow BN
0.15 % Anthracene Chromate Grey KB
0.35 % bichrome



259

3 % Chromate Blue Black B pat.
0.15 % Anthracene Yellow BN
0.8 % bichrome



260

1.25 % Chromate Blue Black B pat.
1.25 % Anthracene Yellow BN
1.35 % Anthracene Chromate Brown EB
1.6 % bichrome

DYED ON CHROMED WOOL.

261

0.02 ⁰/₀ Anthracene Chromate Brown EB
0.12 ⁰/₀ Anthracene Blue Black KG pat.

262

0.35 ⁰/₀ Anthracene Blue Black KG pat.

263

0.1 ⁰/₀ Anthracene Chromate Brown EB
0.3 ⁰/₀ Anthracene Blue Black KG pat.
0.05 ⁰/₀ Alizarine Brilliant Green G pat.

264

0.02 ⁰/₀ Anthracene Chromate Brown EB
0.1 ⁰/₀ Anthracene Blue Black KG pat.
0.05 ⁰/₀ Alizarine Brilliant Green G pat.

265

0.25 ⁰/₀ Anthracene Chromate Brown EB
0.1 ⁰/₀ Anthracene Yellow BN

266

0.4 ⁰/₀ Anthracene Chromate Brown EB
0.25 ⁰/₀ Anthracene Yellow BN
0.2 ⁰/₀ Anthracene Blue Black KG pat.

267

1 ⁰/₀ Anthracene Yellow BN
1.5 ⁰/₀ Anthracene Chromate Brown EB

268

0.75 ⁰/₀ Anthracene Yellow BN
2 ⁰/₀ Anthracene Chromate Brown EB

269

0.5 ⁰/₀ Anthracene Yellow BN
1.5 ⁰/₀ Anthracene Chromate Brown EB
2 ⁰/₀ Anthracene Chrome Red A

270

3 ⁰/₀ Anthracene Chrome Blue RRW extra Powder pat.
2 ⁰/₀ Anthracene Blue Black BE pat.

271

0.03 ⁰/₀ Anthracene Chromate Brown EB
0.02 ⁰/₀ Anthracene Yellow BN

272

0.08 ⁰/₀ Anthracene Chromate Brown EB
0.06 ⁰/₀ Anthracene Yellow BN
0.08 ⁰/₀ Anthracene Blue Black BG pat.

273

0.08 ⁰/₀ Anthracene Chromate Brown EB
0.1 ⁰/₀ Anthracene Yellow BN
0.2 ⁰/₀ Anthracene Blue Black BG pat.

274

1.75 ⁰/₀ Anthracene Yellow BN
0.35 ⁰/₀ Anthracene Chromate Brown EB
1.5 ⁰/₀ Anthracene Chrome Blue G pat.

275

2.5 ⁰/₀ Anthracene Yellow BN
0.5 ⁰/₀ Anthracene Chromate Brown EB
2 ⁰/₀ Anthracene Chrome Blue G pat.

276

1 ⁰/₀ Anthracene Chrome Blue G pat.
2 ⁰/₀ Anthracene Chrome Blue BW extra Powder pat.

277

1 ⁰/₀ Anthracene Chrome Blue G pat.
2 ⁰/₀ Anthracene Acid Blue RR Powder pat.

278

2 ⁰/₀ Anthracene Chrome Blue R pat.
2 ⁰/₀ Anthracene Acid Blue RR Powder pat.

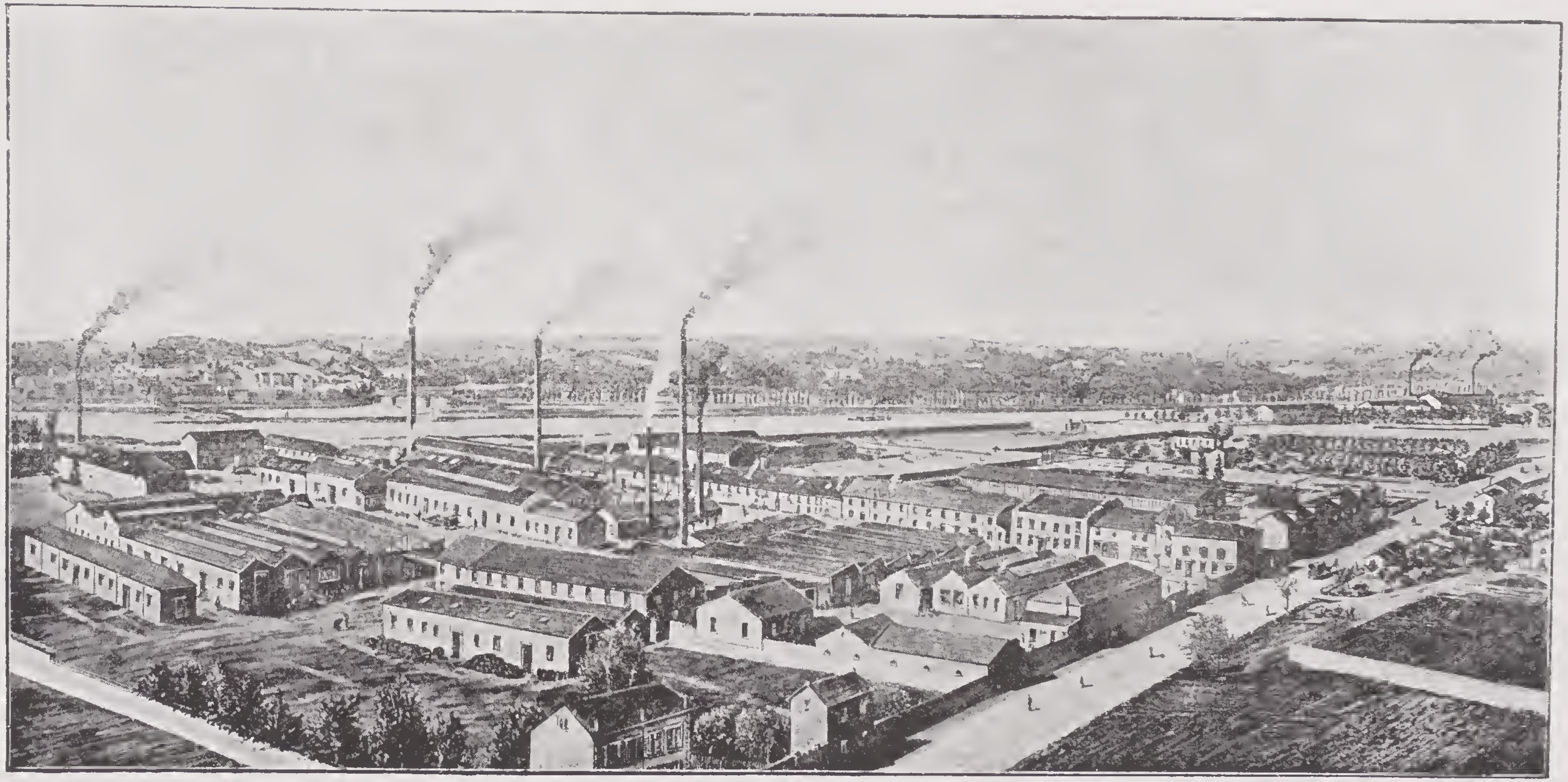
279

1.5 ⁰/₀ Anthracene Chrome Blue G pat.
2 ⁰/₀ Anthracene Chrome Blue RRW extra Powder pat.

280

1 ⁰/₀ Anthracene Chrome Blue R pat.
3 ⁰/₀ Anthracene Chrome Blue RRW extra Powder pat.

MANUFACTURE LYONNAISE DE MATIÈRES COLORANTES, LYON



Works „La Mouche“

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LIBRARY

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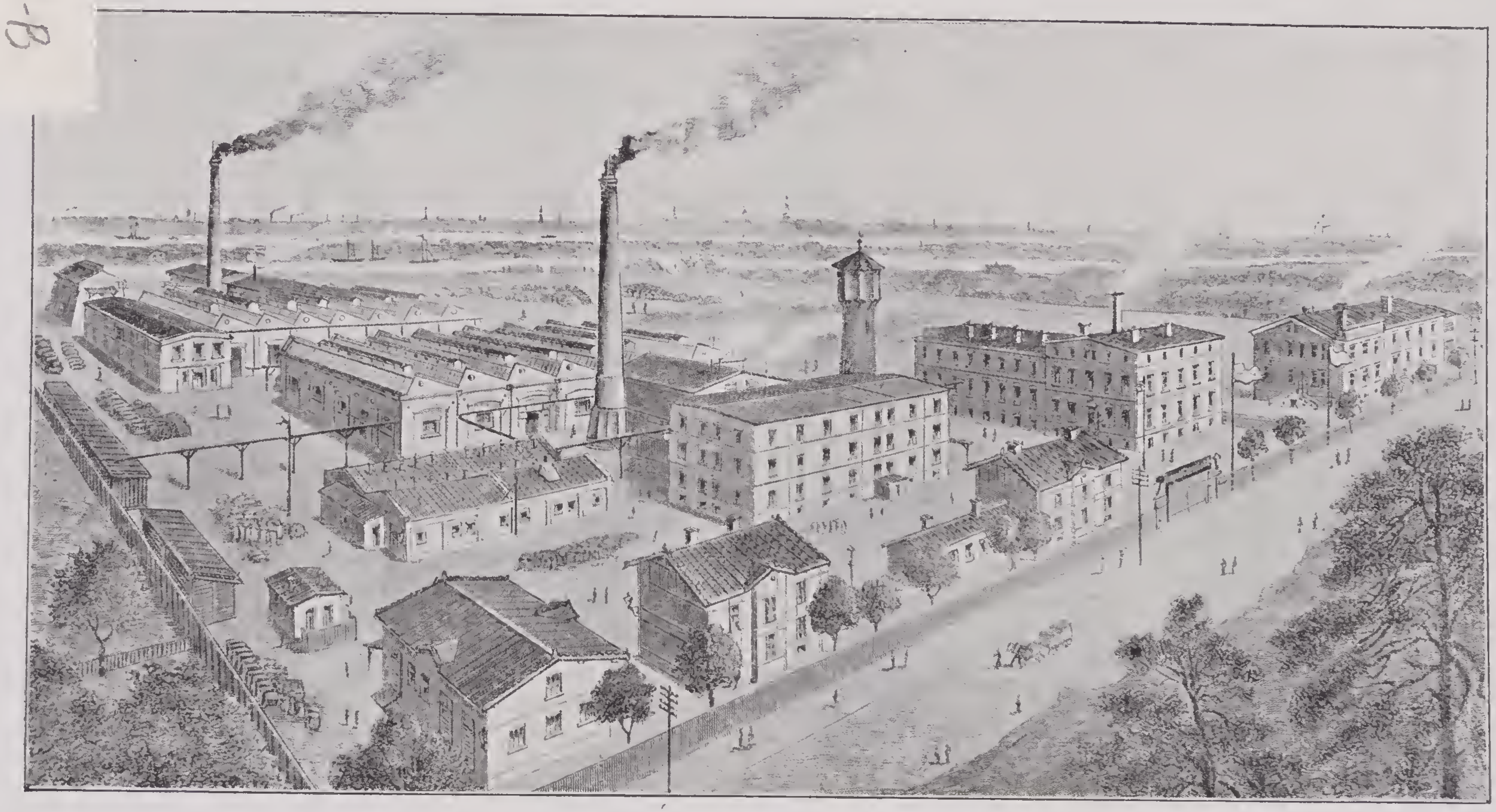

Works at Riga